## (19) World Intellectual Property Organization International Bureau



553016

(43) International Publication Date 21 October 2004 (21.10.2004)

**PCT** 

## (10) International Publication Number WO 2004/090428 A1

(51) International Patent Classification<sup>7</sup>: F24H 9/12, F16L 27/08

F24D 19/02,

(21) International Application Number:

PCT/IB2004/050139

(22) International Filing Date: 24 February 2004 (24.02.2004)

(25) Filing Language:

Italian

(26) Publication Language:

English

(30) Priority Data: PCT/IT03/00223

10 April 2003 (10.04.2003) IT

- (71) Applicants (for all designated States except US): BOZZI, Alejandro [IT/IT]; Via A.S. Battistelli 21, I-64100 Teramo (IT). LEDDA, Giampiero [IT/IT]; Via Memmingen s.n., I-64100 Teramo (IT).
- (71) Applicant and
- (72) Inventor: BERGAMANTE, Raffaele [IT/IT]; Via Cona 172, I-64100 Teramo (IT).
- (74) Agents: LEONE, Mario et al.; Società Italiana Brevetti S.p.a., Piazza Di Pietra 39, I-00186 Rome (IT).

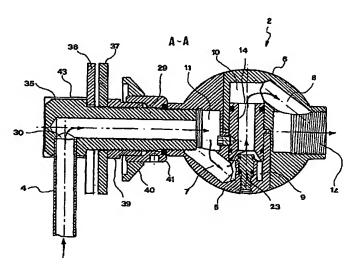
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HYDRAULIC JOINT ARTICULATED DEVICE AND USE THEREOF WITH A HEAT RADIATOR



(57) Abstract: A hydraulic joint articulated device (1) effectively supports a radiator allowing a remarkable freedom of motion and has a pair of articulated connectors (2), each comprising: hinge members (5, 6) apt to be assembled and comprising a respective hydraulic channel (7, 8), in which there is obtained a pin seat (9, 10) with a tubular pin (14) having a respective hydraulic channel (21) forming a hydraulic joint extending between the respective connector seats (11, 12); and a valve seat (22) at one end of said tubular pin (14), and a respective shutter member (23) located in an opening (24) obtained in one (5) of said hinge members (5, 6), further comprising, at each articulated connector (2), a tubular duct (29) extending from the respective connector seat (11) to a mouthpiece section (30) apt to receive a waterworks piping (4), extending inside a masonry.

